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DATE MAILED: 08/10/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

30827 7590 08/10/2009 MCKENNA LONG & ALDRIDGE LLP 1900 K STREET. NW

WASHINGTON, DC 20006

EXAMINER					
BRIGGS, NATHANAEL R					
ART UNIT	PAPER NUMBER				
2871					

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/742,911	12/23/2003	Hee Jung Hong	8734.282.00 US	7164

TITLE OF INVENTION: TOUCH PANEL FOR DISPLAY DEVICE AND METHOD OF FABRICATING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/10/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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30827 MCKENNA L 1900 K STREET WASHINGTON			I E Str ad tra	creby certify that th	is Feet	e of Mailing or Trans s) Transmittal is being fficient postage for fir ISSUE FEE address (I) 273-2885, on the d	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	11/10/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	7			
BRIGGS, NA	THANAEL R	287I	349-012000	_			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignce is ident h in 37 CFR 3.II. Comp	nge of Correspondence "Indication form ed. Use of a Customer A TO BE PRINTED ON	(1) the names of up- or agents OR, alterna (2) the name of a sin- gesistered attorney or 2 registered patent au isited, no name will b THE PATENT (print or t- e data will appear on the DT a substitute for filing au (B) RESIDENCE: (CTI	ively, gle firm (having as a agent) and the nam orneys or agents. If e printed. ype) patent. If an assign assignment.	membes of u no nan	per a 2pp to 3	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be p	orinted on the patent):	Individual 🗆 C	orporat	ion or other private gr	oup entity Government
Advance Order -	wo small entity discount p	permitted)	b. Payment of Fee(s): (Plo A check is enclosed. Payment by credit co The Director is herel overpayment, to Dep	ard. Form PTO-2038	is att	ached.	shown above) ficiency, or credit any n extra copy of this form).
	s SMALL ENTITY state	is. See 37 CFR 1.27.	b. Applicant is no lo				
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Authorized Signature				Date			
Typed or printed name Registration No							
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OMB 0651-0033 PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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30827 7.	590 08/10/2009	EXAMINER		
MCKENNA LO	NG & ALDRIDGE I	BRIGGS, NATHANAEL R		
1900 K STREET, NW WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER
			2871	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 532 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 532 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/742.911 HONG ET AL. Notice of Allowability Examiner Art Unit NATHANAFI R BRIGGS 2071 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to amendments filed 14 April 2009. The allowed claim(s) is/are 1,4,5,7-9,12,13,15 and 16. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

/N. R. B./ Examiner, Art Unit 2871 Application/Control Number: 10/742,911 Page 2

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1, 4-5, 7, 8, 9, 12, 13, and 15-16 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: Claims 1 and 9 recite a touch panel and method of fabricating a touch panel for a display device. respectively, having a driver IC comprising upper and lower substrates, first and second transparent electrodes, first and second metal electrodes being electrically connected to the first transparent electrode, third and fourth metal electrodes being electrically connected to the second transparent electrode, a flexible printed cable having a plurality of signal applying lines extended to a rear side of the display device for applying signal voltages to the metal electrodes, wherein the flexible printed cable has a first bend over an edge of the upper and lower substrates from a top to a bottom of the display device, and has a plurality of through-holes between the first part and the second part, wherein the driver IC is arranged on the rear side of the display device for driving the display. wherein the flexible printed cable extends in a first direction from the first bend to overlap the driver IC and the flexible printed cable has a second bend to extend past the driver IC in a second direction over a printed circuit board and connects to a touch panel controller. None of the prior art of record alone or in combination discloses the device and method of claims 1 and 9
- Kono et al. (US 2001/0043291) discloses a touch panel and method of fabricating a touch panel for a display device, respectively, having a driver IC comprising upper and lower substrates, first and second transparent electrodes, first

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and second metal electrodes being electrically connected to the first transparent electrode, third and fourth metal electrodes being electrically connected to the second transparent electrode, and a flexible printed cable having a plurality of signal applying lines for applying signal voltages to the metal electrodes. However, *Kono* does not disclose the FPC extended to a rear side of the display device, wherein the flexible printed cable has a first bend over an edge of the upper and lower substrates from a top to a bottom of the display device, and has a plurality of through-holes between the first part and the second part, wherein the driver IC is arranged on the rear side of the display device for driving the display, wherein the flexible printed cable extends in a first direction from the first bend to overlap the driver IC and the flexible printed cable has a second bend to extend past the driver IC in a second direction over a printed circuit board and connects to a touch panel controller, nor would it have been obvious to do in combination.

4. Nakanishi et al. (6,781,642) a touch panel and method of fabricating a touch panel for a display device, respectively, having a driver IC comprising upper and lower substrates, first and second transparent electrodes, a flexible printed cable having a plurality of signal applying lines extended to a rear side of the display device for applying signal voltages to the metal electrodes, wherein the flexible printed cable has a first bend over an edge of the upper and lower substrates from a top to a bottom of the display device, wherein the driver IC is arranged on the rear side of the display device for driving the display, wherein the flexible printed cable extends in a first direction from the first bend to overlap the driver IC. However, Nakanishi does not disclose first and

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second metal electrodes being electrically connected to the first transparent electrode, third and fourth metal electrodes being electrically connected to the second transparent electrode, wherein the FPC has a plurality of through-holes between the first part and the second part, or wherein the flexible printed cable has a second bend to extend past the driver IC in a second direction over a printed circuit board and connects to a touch panel controller, nor would it have been obvious to do so in combination.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATHANAEL R. BRIGGS whose telephone number is (571)272-8992. The examiner can normally be reached on 9 AM - 5:30 PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nathanael Briggs 8/4/2009

/David Nelms/ Supervisory Patent Examiner, Art Unit 2871